Listing of Claims:

- 1. (Currently amended) A network comprising a plurality of Nodes interconnected by Links, wherein:
 - (a) each Node is assigned a set of one or more coordinate labels, each representing a path comprising one or more Links or other Nodes;
 - (b) each coordinate label is unique to the Node to which it is assigned;
 - (c) a path between a first Node and a second, non-adjacent Node being determined from one of said coordinate labels associated with assigned to said first Node and one of said coordinate labels associated with assigned to said second Node;
 - (d) said first Node is a gateway Node and said second Node is a destination Node; and
 - (e) data from a foreign network is received at said gateway Node and routed on said network to said destination Node.
- 2. (Original) The network of claim 1 wherein said received data is routed to a closest Node of a plurality of mirror Nodes.
- 3. (Original) The network of claim 1 where said gateway Node translates said data from said foreign network into a local packet.
- 4. (Original) The network of claim 3 where said local packet is a DART packet.
- 5. (Original) The network of claim 3 where said local packet is an IP packet.
- 6. (Original) The network of claim 3 where said local packet is an Appletalk packet.
- 7. (Original) The network of claim 3 where said local packet is an Ethernet packet.
- 8. (Original) The network of claim 3 where said local packet is a MPLS packet.
- 9. (Original) The network of claim 3 where said local packet is an ATM packet.

- 10. (Original) The network of claim 1 where said data is a DART packet wrapped in a foreign packet, and where said gateway Node unwraps said DART packet from said foreign packet.
- 11. (Original) The network of claim 10 where said foreign packet is an IP packet.
- 12. (Original) The network of claim 10 where said foreign packet is an Appletalk packet.
- 13. (Original) The network of claim 10 where said foreign packet is an Ethernet packet.
- 14. (Original) The network of claim 10 where said foreign packet is a MPLS packet.
- 15. (Original) The network of claim 10 where said foreign packet is an ATM packet.
- 16. (Original) The network of claim I wherein said data received from said foreign network is an IP packet.
- 17. (Original) The network of claim I wherein said data received from said foreign network is a MPLS packet.
- 18. (Original) The network of claim I wherein said data received from said foreign network is an ATM packet.
- 19. (Original) The network of claim 1 wherein said data received from said foreign network is an Appletalk packet.
- 20. (Original) The network of claim 1 wherein said data received from said foreign network is an Ethernet packet.
- 21. (Currently amended) A network comprising a plurality of Nodes interconnected by Links, wherein:
 - (a) each Node is assigned a set of one or more coordinate labels, each representing a path comprising one or more Links or other Nodes;
 - (b) each coordinate label is unique to the Node to which it is assigned;

- (c) a path between a first Node and a second, non-adjacent Node being determined from one of said coordinate labels associated with assigned to said first Node and one of said coordinate labels associated with assigned to said second Node;
- (d) said second Node is a gateway Node; and
- (e) data is transmitted from said gateway Node into a foreign network.
- 22. (Original) The network of claim 21 where said gateway Node translates said data into a foreign packet.
- 23. (Original) The network of claim 22 where said foreign packet is a DART packet.
- 24. (Original) The network of claim 22 where said foreign packet is an LP packet.
- 25. (Original) The network of claim 22 where said foreign packet is an Appletalk packet.
- 26. (Original) The network of claim 22 where said foreign packet is an Ethernet packet.
- 27. (Original) The network of claim 22 where said foreign packet is a MPLS packet.
- 28. (Original) The network of claim 22 where said foreign packet is an ATM packet.
- 29. (Original) The network of claim 21 where said gateway Node wraps a DART packet in a foreign packet to form said data.
- 30. (Original) The network of claim 29 where said foreign packet is an LP packet.
- 31. (Original) The network of claim 29 where said foreign packet is an Appletalk packet.
- 32. (Original) The network of claim 29 where said foreign packet is an Ethernet packet.
- 33. (Original) The network of claim 29 where said foreign packet is a MPLS packet.
- 34. (Original) The network of claim 29 where said foreign packet is an ATM packet.
- 35. (Original) The network of claim 21 where said transmission from said gateway Node into said foreign network is performed by a Link Label replacement.

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- 36. (Original) A method for determining a path from a source Node to a destination Node in a network comprising a plurality of Nodes interconnected by Links, said Nodes including a first Node, and a plurality of second Nodes, said second Nodes including said source Node and destination Node, said method comprising the steps of:
 - (a) assigning to each of said second Nodes, including said source Node and said destination Node, one or more coordinate labels, each coordinate label assigned to a second Node representing a path through said network from said second Node to said first Node;
 - (b) determining a path from said source Node to said destination Node by combining one coordinate label of said source Node and one coordinate label of said destination Node;
 - (c) receiving at said source node data from a foreign network, and
 - (d) routing said data on said network to said destination node.
- 37. (Currently amended) The method of claim 36 further comprising the step of of:
 - (e) unwrapping a foreign packet from said data to recover a DART packet.
- 38. (Original) The method of claim 37 where said foreign packet is an 1P packet.
- 39. (Original) The method of claim 37 where said foreign packet is an Appletalk packet.
- 40. (Original) The method of claim 37 where said foreign packet is an Ethernet packet.
- 41. (Original) The method of claim 37 where said foreign packet is a MPLS packet.
- 42. (Original) The method of claim 37 where said foreign packet is an ATM packet.
- 43. (Currently amended) The method of claim 36 further comprising the step of:
 - (f) Translating translating said data received from said foreign network into a DART packet.
- 44. (Original) The method of claim 43 wherein said data received from said foreign network is an EP packet.

- 45. (Original) The method of Claim 43 wherein said data received from said foreign network is a MPLS packet.
- 46. (Original) The method of claim 43 wherein said data received from said foreign network is an ATM packet.
- 47. (Original) The method of claim 43 wherein said data received from said foreign network is an Appletalk packet.
- 48. (Original) The method of claim 43 wherein said data received from said foreign network is an Ethernet packet.
- 49. (Original) A method for determining a path from a source Node to a destination Node in a network comprising a plurality of Nodes interconnected by Links, said Nodes including a first Node, and a plurality of second Nodes, said second Nodes including said source

 Node and destination Node, said method comprising the steps of:
 - (a) assigning to each of said second Nodes, including said source Node and said destination Node, one or more coordinate labels, each coordinate label assigned to a second Node representing a path through said network from said second Node to said first Node;
 - (b) determining a path from said source Node to said destination Node by combining one coordinate label of said source Node and one coordinate label of said destination Node; and
 - (c) transmitting at said destination node data onto a foreign network.
- 50. (Original) The method of claim 49 where said transmission from said destination Node into said foreign network is performed by a Link Label replacement.
- 51. (Currently amended) The method of claim 49 further comprising the step of of:

 (e)(d) wrapping a DART packet in a foreign packet to form said data.
- 52. (Original) The method of claim 51 where said foreign packet is an IP packet.
- 53. (Original) The method of claim 51 where said foreign packet is an Appletalk packet.

- 54. (Original) The method of claim 51 where said foreign packet is an Ethernet packet.
- 55. (Original) The method of claim 51 where said foreign packet is a MPLS packet.
- 56. (Original) The method of claim 51 where said foreign packet is an ATM packet.
- 57. (Currently amended) The method of claim 49 further comprising the step of:

 (f)(e) forming said data by translating a DART packet into a foreign packet.
- 58. (Original) The method of claim 57 wherein said data received from said foreign network is an IP packet.
- 59. (Original) The method of Claim 57 wherein said data received from said foreign network is a MPLS packet.
- 60. (Original) The method of claim 57 wherein said data received from said foreign network is an ATM packet.
- 61. (Original) The method of claim 57 wherein said data received from said foreign network is an Appletalk packet.
- 62. (Original) The method of claim 57 wherein said data received from said foreign network is an Ethernet packet.
- 63. (Currently amended) A Node for use in a network, said network comprising a plurality of Nodes connected by Links, wherein: said Node for use in said network has one or more coordinate labels assigned thereto, each coordinate label representing a complete path from said Node to a particular other, non-adjacent destination Node of said network, each of said coordinate labels being unique to said Node, wherein data from a foreign network is received at said Node and routed on said network to said destination Node.
- 64. (Currently amended) The node of claim 63 wherein said data received from said foreign network is a foreign packet, and said gateway Node unwraps said foreign packet to retrieve a DART packet.

- 65. (Original) The node of claim 64 where said foreign packet is an LP packet.
- 66. (Original) The node of claim 64 where said foreign packet is an Appletalk packet.
- 67. (Original) The node of claim 64 where said foreign packet is an Ethernet packet.
- 68. (Original) The node of claim 64 where said foreign packet is a MPLS packet.
- 69. (Original) The node of claim 64 where said foreign packet is an ATM packet.
- 70. (Original) The node of claim 63 where said data is translated from a foreign packet into a DART packet.
- 71. (Original) The node of claim 70 where said foreign packet is an LP packet.
- 72. (Original) The node of claim 70 where said foreign packet is an Appletalk packet.
- 73. (Original) The node of claim 70 where said foreign packet is an Ethernet packet.
- 74. (Original) The node of claim 70 where said foreign packet is a MPLS packet.
- 75. (Original) The node of claim 70 where said foreign packet is an ATM packet.
- 76. (Currently amended) A Node for use in a network, said network comprising a plurality of Nodes connected by Links, wherein:
 said Node for use in said network has one or more coordinate labels assigned thereto,
 each coordinate label representing a complete path from said Node to a particular other,
 non-adjacent Node of said network, each of said coordinate labels being unique to said
 Node, wherein said node transmits said data onto said a foreign network.
- 77. (Currently amended) The node of claim 76 where said gateway Node wraps a DART packet in a foreign packet to form said data.
- 78. (Original) The node of claim 77 where said foreign packet is an IP packet.
- 79. (Original) The node of claim 77 where said foreign packet is an Appletalk packet.

- 80. (Original) The node of claim 77 where said foreign packet is an Ethernet packet.
- 81. (Original) The node of claim 77 where said foreign packet is a MPLS packet.
- 82. (Original) The node of claim 77 where said foreign packet is an ATM packet.
- 83. (Original) The Node of claim 76 where said data is a DART packet that has been translated into a foreign packet.
- 84. (Original) The Node of claim 83 wherein said foreign packet is an IP packet.
- 85. (Original) The Node of claim 83 wherein foreign packet is a MPLS packet.
- 86. (Original) The Node of claim 83 wherein foreign packet is an ATM packet.
- 87. (Original) The Node of claim 83 wherein said foreign packet is an Appletalk packet.
- 88. (Original) The Node of Claim 83 wherein said foreign packet is an Ethernet packet.
- 89. (Currently amended) The node of claim 76 where said transmission from said gateway

 Node into said foreign network is performed by a Link Label replacement.